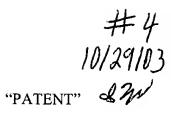
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Murray, Rex E.

SERIAL NO.: 10/022,997

FILED:

December 18, 2001 V

FOR: Multimetallic Catalyst

Compositions for the Polymerization of Olefins

EXAMINER:

Unassigned

GROUP ART UNIT: 1750

ATTY. DOCKET NO.: 2001U014.US

DATE:

August 16, 2002

Honorable Commissioner for Patents

Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with Title 37, Sections 1.56, 1.97 and 1.98 of the Code of Federal Regulations, and pursuant to Applicant's duty of candor and good faith toward the United States Patent and Trademark Office, the Examiner's attention is drawn to the art indicated on the attached PTO-1449 form.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form to the undersigned attorney.

This disclosure statement should not be construed as a representation that a search has been made or that no other material information, as defined in 37 CFR § 1.56(a), exists.

A copy of each document is enclosed. Some of the documents may have markings thereon. No significance is meant to be attached to the markings.

We believe that this disclosure complies with the requirements of 37 CFR § 1.56, 1.97 and 1.98, and the Manual of Patent Examining Procedures § 609. If for any reason the Examiner finds that the disclosure or documents do not comply with these sections, notification is respectfully requested.

If there are any matters or issues outstanding, the Examiner is encouraged to contact the attorney of record at the telephone number listed below.

Respectfully submitted:

Osborne K. McKinney Attorney for Applicant Registration No. 40,084

Univation Technologies LLC. 5555 San Felipe, Suite 1950 Houston, TX 77056

Telephone: (713) 892-3711 Facsimile: (713) 892-3687

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	AC	EP 0 320 169 A2	14.06.89	Europe					
	AD	EP 0 349 886 B1	20.09.95	Europe					
	AE	EP 0 509 233 A2	21.10.92	Europe					
	AF	EP 0 761 694 B1	12.03.97	Europe					
	AG	EP 0 803 520 A1	29.10.97	Europe					
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	ΑI	WO 92/12162	23.07.92	PCT					
	AJ	WO 96/23010	01.08.96	PCT					
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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)
Deelman et al., "Lithium Derivatives of Novel Monoaniomic Di-N,N'-chelating Pyridyl- and Quinolyl-1-azaallyl Ligands" Organometalics 1997, 16, 1247-1252 (Aug.).
Deelman et al., "Novel monanionic di-N,N'-centered chelating ligands and the C ₁ and C ₂ symmetrical zirconium
BF complexes" Journal of Organometallic Chemistry 513 (1996) 281-285 (Nov.).
Hitchcock et al., "Transformation of the Bis(trimethylsilyl) methyl into Aza-allyl and β -Diketinimato Ligands; the
BG X -Ray Structures of $[Li\{N(R)C(Bu')CH(R)\}]_2$ and $[Zr\{N(R)C(Bu')CHC(Ph)N(R)\}CI_3](R = SiMe_3)$ "
J. Chem. Soc., Chem. Commun. (1994) 2637-2638 (Aug.). Hitchcock et al., "Transformaton of the Bis(trimethylsilyl)methyl into a β-Diketinimato Ligand; the X-Ray
BH Structure of $[Li(L'L')]_2$, $SnCi(Me)_2$ ($L'L'$) and $SnCi(Me)_2$ (LL), $(L'L' = N(R)C(Ph)C(H)C(Ph)NR,LL =$
N)H)C(Ph)NH, R - SiMe ₃)" J. Chem. Soc., Chem. Commun. (1994) 1699-1700 (May).
Clarke, et al., "Structural Investigations of the Dipyrromethene Complexes of Calcium(II), Nickel(II) and
BI Copper(II)
Inorganica Chimica Acta. 166 (1989) 221-231 (Jun.) Tjaden et al. "Synthesis, Structures, and Reactivity of $(R_6$ -acen) ZrR'_2 and $(R_6$ -acen) $Zr(R')^+$ Complexes $(R = H_6)$
$BJ = F; R' = CH_2Ch(e_3, CH_2Ph)$ "
Organometallics 1995, 14, 371-386 (Jul.). Corazza et al., "cis-and trans-Dichloro-derivatives of Six- and Seven-co ordinate Zirconium and Hafnium
BK bonded to Quadridentate Schiff-base Ligands. Crystal Structures of [Zr(acen)Cl ₂ (thf)], [M(salphen)Cl ₂ (thf)]
0.5thf, $[M(acen)CI_2, (M = Zr \ or \ Hf), \ and \ [Zr(msal)CI_2] \ acen = N,N'=ethylenebis(acetylacetoneiminate),$
salphen = N,N' -o-phenylenebis(salicylideneiminate), $msal = N$ -methylsalicylideneiminate, and $thf = tetrahydrofuran$
J. Chem. Soc. Dalton Trans. (1990) 1335-1344 (Aug.)
EXAMINER DATE CONSIDERED
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	Cozzi et al., "Oxazoline Early Transiton Metal Complexes: Functionalizable Achiral Titanium(IV), fitanium(III), Zirconium(IV), Vanadium(III), and Chiral Zirconium(IV) Bis(oxazoline) complexes" Inorg. Chem (1995), 34, 2921-2930, (Dec.).								
		Korine et al., "Bis(T			inate zirconium dichlori	des. Active	catalysts for et	hylene	
	CF /	polymerization"	etallic Chemic	tes: 502 (1995) 307-314 (Mar.).				
				- 1	benzamidinato chloro co	ompounds o	of titanium, zirc	onium and	
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	CK P	Gornitzka et al., "C Organometallics 19		,	(pyridyl)methyl Substitu y).	ent to Grou	p 1 and 13 Me	tals"	
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	DG				Zirconium(IV) Octaeth; ion of [(OEP)ZrCH ₂ SiM		(OEP) Comple	ex by H_2 : C	rystai	
		Angew. Chem. Int.	Ed. Engl. 1994	33, No.	1 95-97 (Jul.).					
	DH->	Solari et al., "Funci	ionalizedable S nd Crystal Stru	5,5,10,10 cture of	,15,15,20,20-Octaethyl _I Titanium-, Vanadium- a	orphyrinog and Chromis	gen Complexes (um- (III) Derivi	of Early Tr utives and a	ansition 1 Two-	
		electron Oxidation	of the Porphyri	inogen Sl	keleton"					
		J. Chem. Soc. Dalto			7 (Apr.) Is Incorporating Tetraaz	a_Macrocy	cle Ancillary I	igands Syn	thesis	
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